

SECTOR ANTENNA APPARATUS AND VEHICLE-MOUNTED
TRANSMISSION AND RECEPTION APPARATUS

ABSTRACT OF THE DISCLOSURE

A sector antenna apparatus mounted on a vehicle has a casing, in which six horn antennas having apertures over an angular range of 180 degrees and extending radially are accommodated. The proximal ends of the horn antennas are connected to
5 an antenna changeover switch. A portion of the horn antennas which emits beam radiation in the forward and backward direction and diagonal direction of the vehicle have large apertures, and a portion of the horn antennas which emits beam radiation to the right and left of the vehicle have a small aperture. Thus, the required antenna characteristics, such as angular resolution, beam width, antenna gain, are achievable in
10 the required direction.